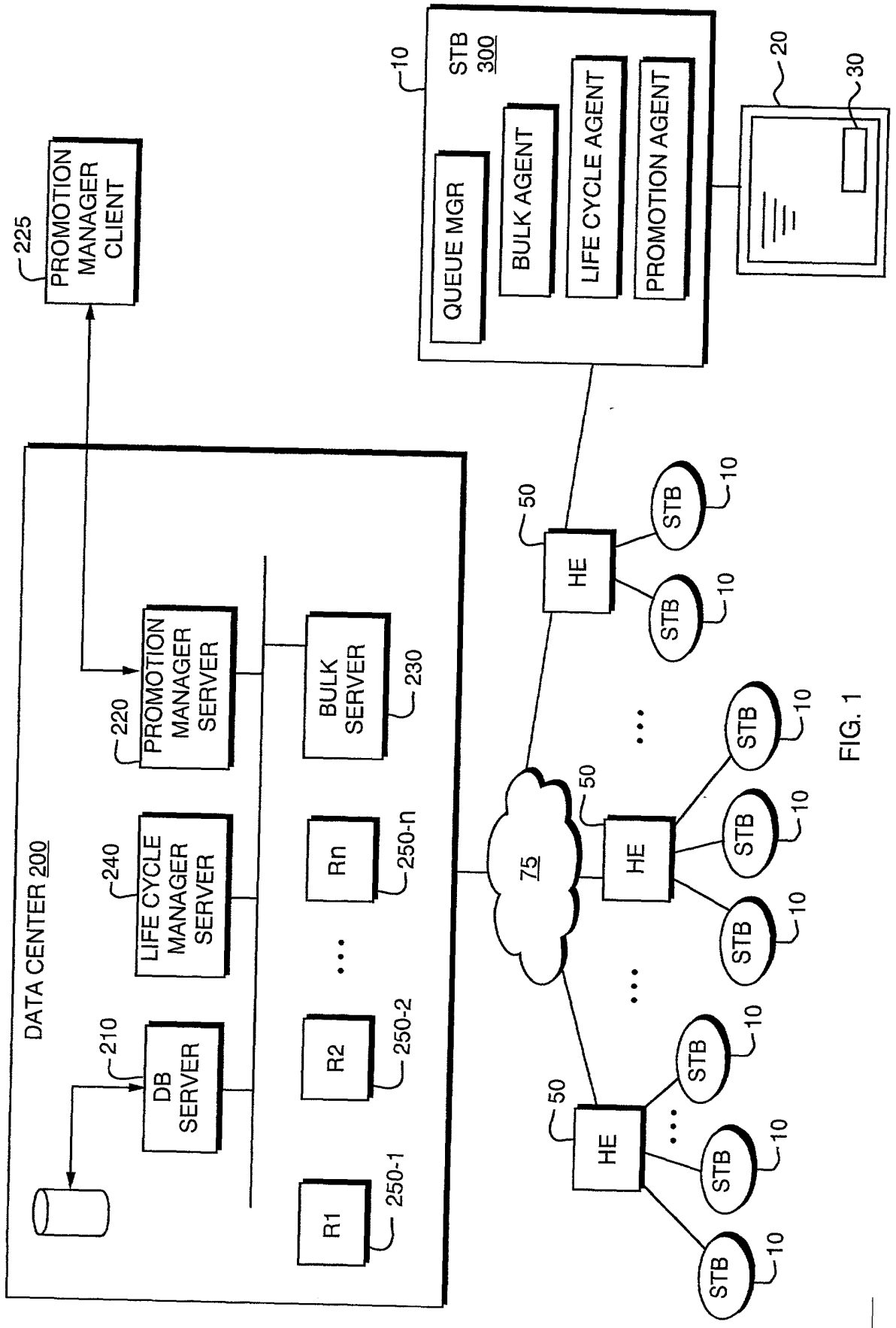
DATA CENTER 200
PROMOTION MANAGER CLIENT
225
PROMOTION MANAGER SERVER
220
LIFE CYCLE MANAGER SERVER
240
DB SERVER
210
BULK SERVER
230
R1
250-1
R2
250-2
Rn
250-n
75
HE
50
STB
300
10
QUEUE MGR
BULK AGENT
LIFE CYCLE AGENT
PROMOTION AGENT
20
30

FIG. 1

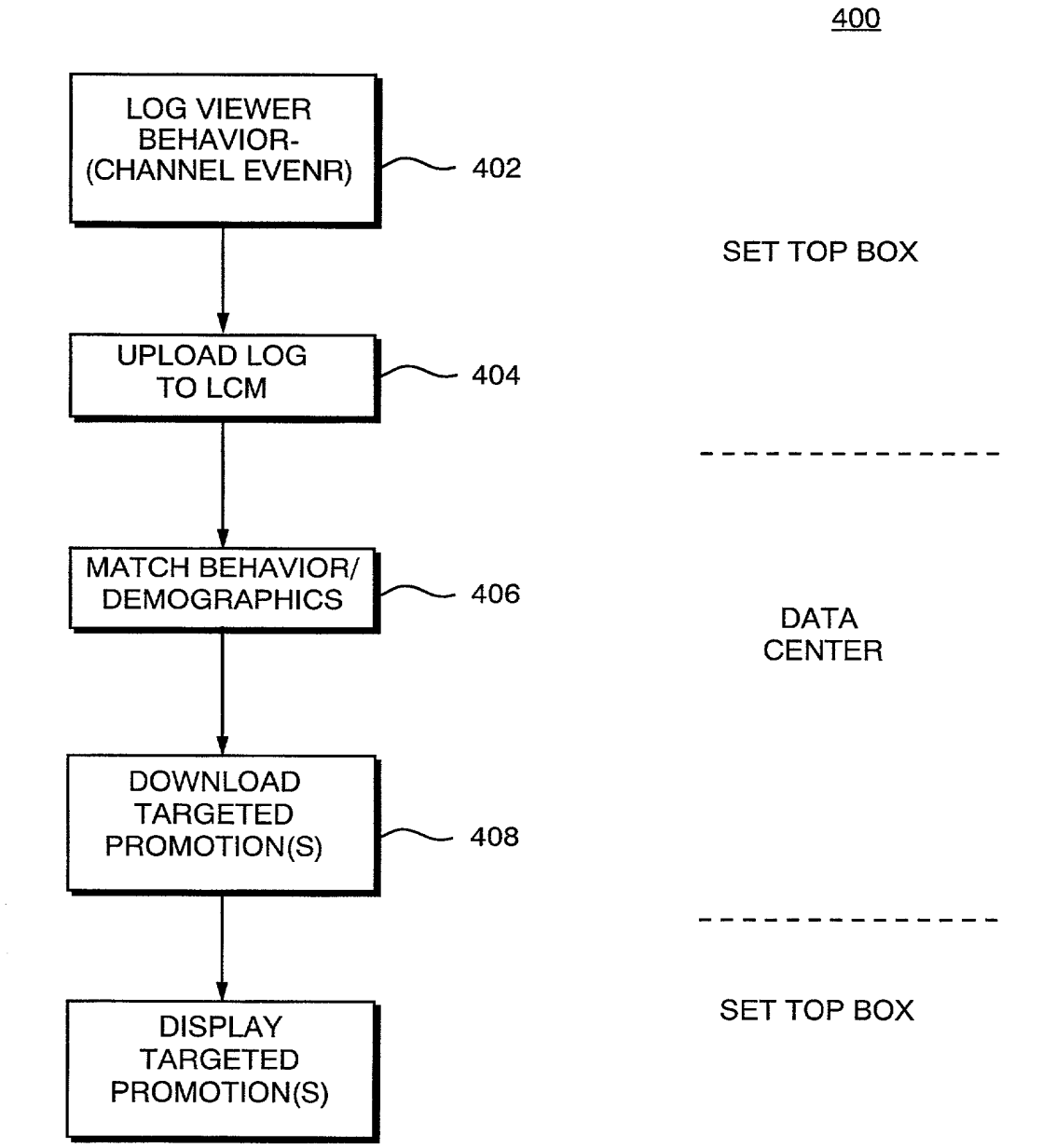

FIG. 2

Attorney Docket No. 2657.2004-001

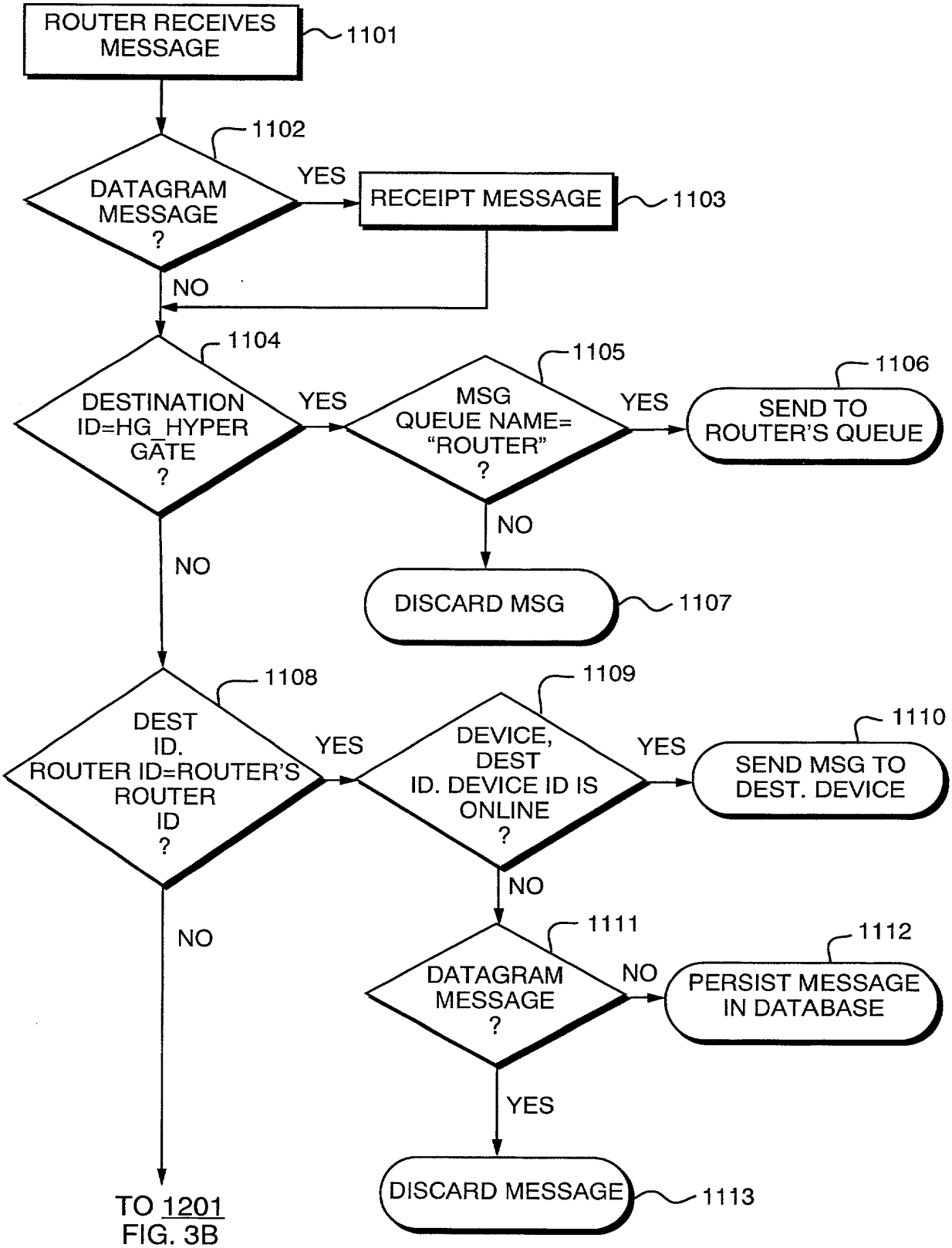

FIG. 3A

PROOF: 5065007

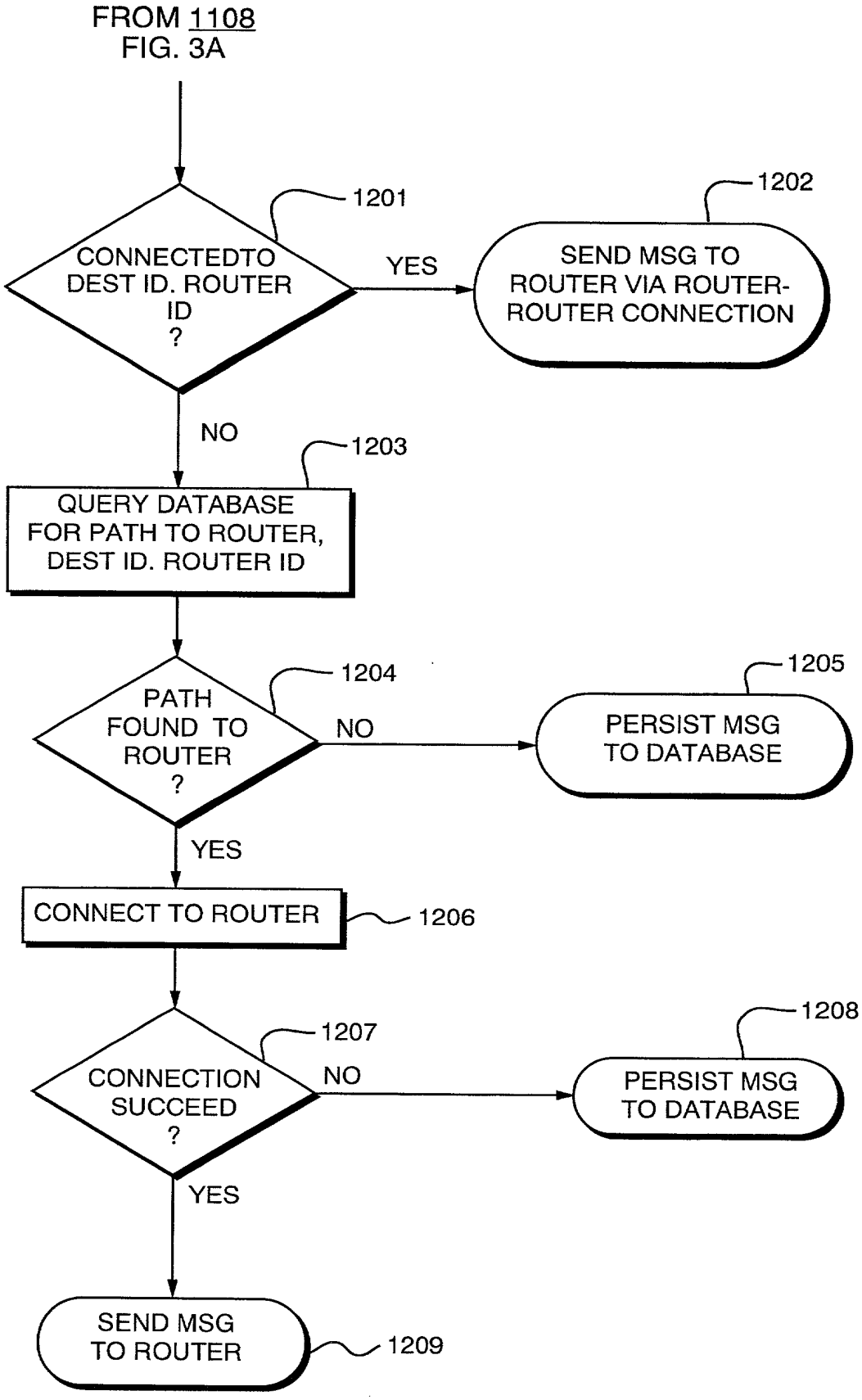

FIG. 3B

Patent Application

Device GUID		
FIELD	SIZE	DESCRIPTION
Data 1	32 biits	Reserved
Data 2	16 biits	Network ID
Data 3	16 biits	Router ID
Data 4	64 biits	Device ID

FIG. 4

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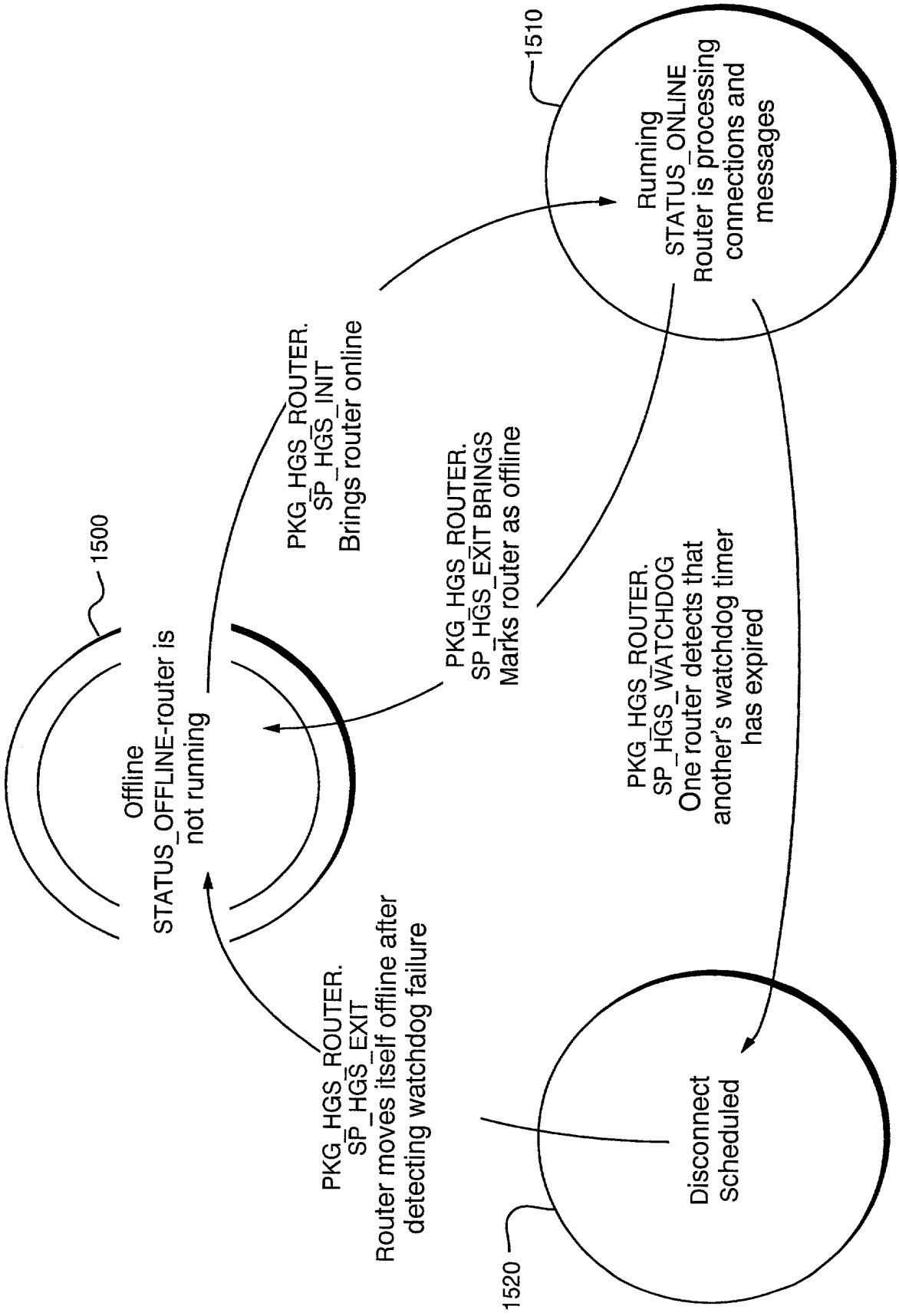
1500
Offline
STATUS_OFFLINE-router is not running
PKG_HGS_ROUTER.
SP_HGS_INIT
Brings router online
1510
Running
STATUS_ONLINE
Router is processing connections and messages
PKG_HGS_ROUTER.
SP_HGS_EXIT BRINGS
Marks router as offline
PKG_HGS_ROUTER.
SP_HGS_WATCHDOG
One router detects that another's watchdog timer has expired
PKG_HGS_ROUTER.
SP_HGS_EXIT
Router moves itself offline after detecting watchdog failure
1520
Disconnect Scheduled

FIG. 5

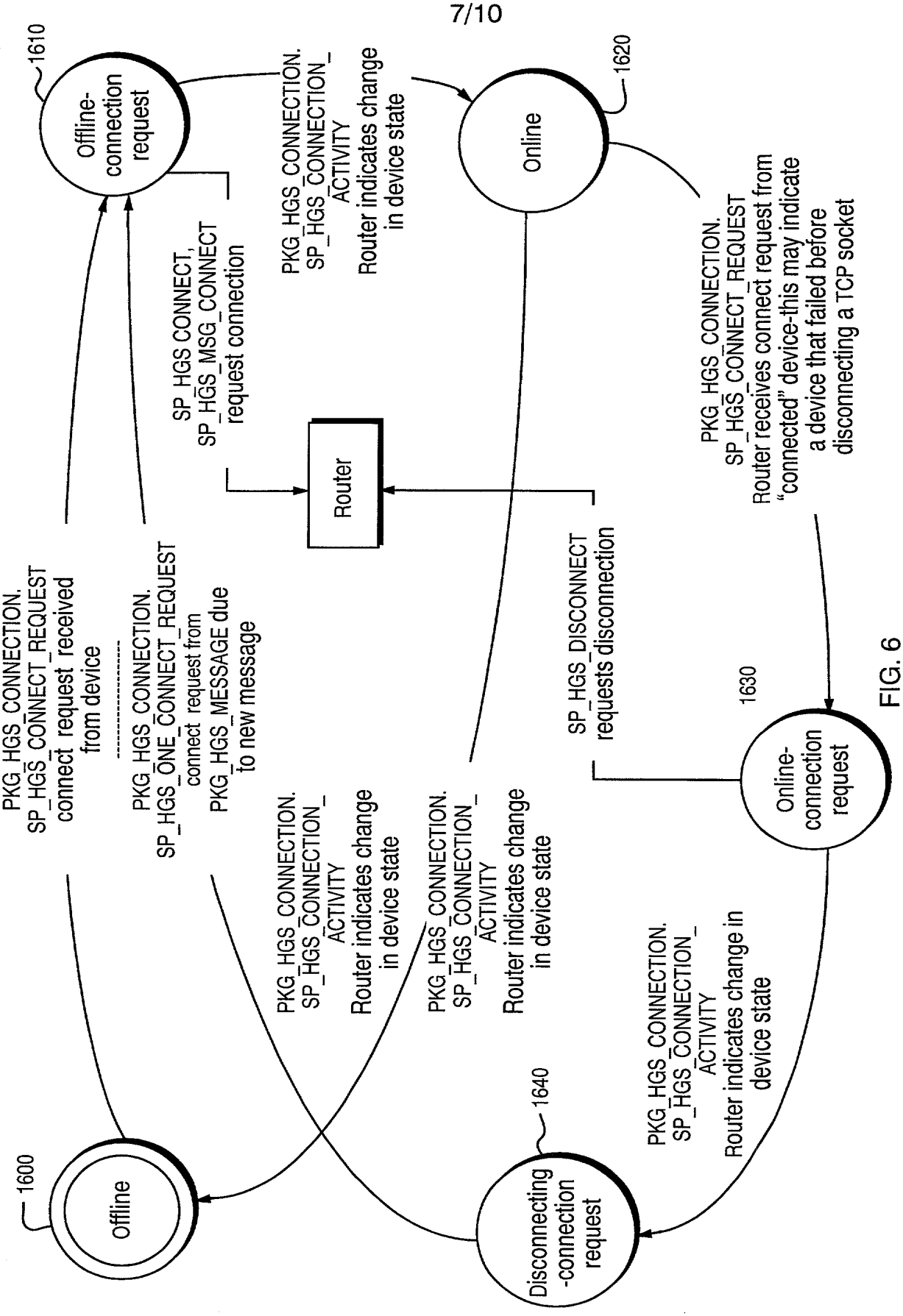
1610
Offline-connection request
1620
Online
Router
1600
Offline
1640
Disconnecting -connection request
1630
Online-connection request
PKG_HGS_CONNECTION. SP_HGS_CONNECT_REQUEST connect request received from device
PKG_HGS_CONNECTION. SP_HGS_ONE_CONNECT_REQUEST connect request from PKG_HGS_MESSAGE due to new message
SP_HGS CONNECT, SP_HGS_MSG_CONNECT request connection
PKG_HGS_CONNECTION. SP_HGS_CONNECTION_ ACTIVITY Router indicates change in device state
PKG_HGS_CONNECTION. SP_HGS_CONNECTION_ ACTIVITY Router indicates change in device state
PKG_HGS_CONNECTION. SP_HGS_CONNECTION_ ACTIVITY Router indicates change in device state
PKG_HGS_CONNECTION. SP_HGS_CONNECT_REQUEST Router receives connect request from "connected" device-this may indicate a device that failed before disconnecting a TCP socket
SP_HGS_DISCONNECT requests disconnection
PKG_HGS_CONNECTION. SP_HGS_CONNECTION_ ACTIVITY Router indicates change in device state

FIG. 6

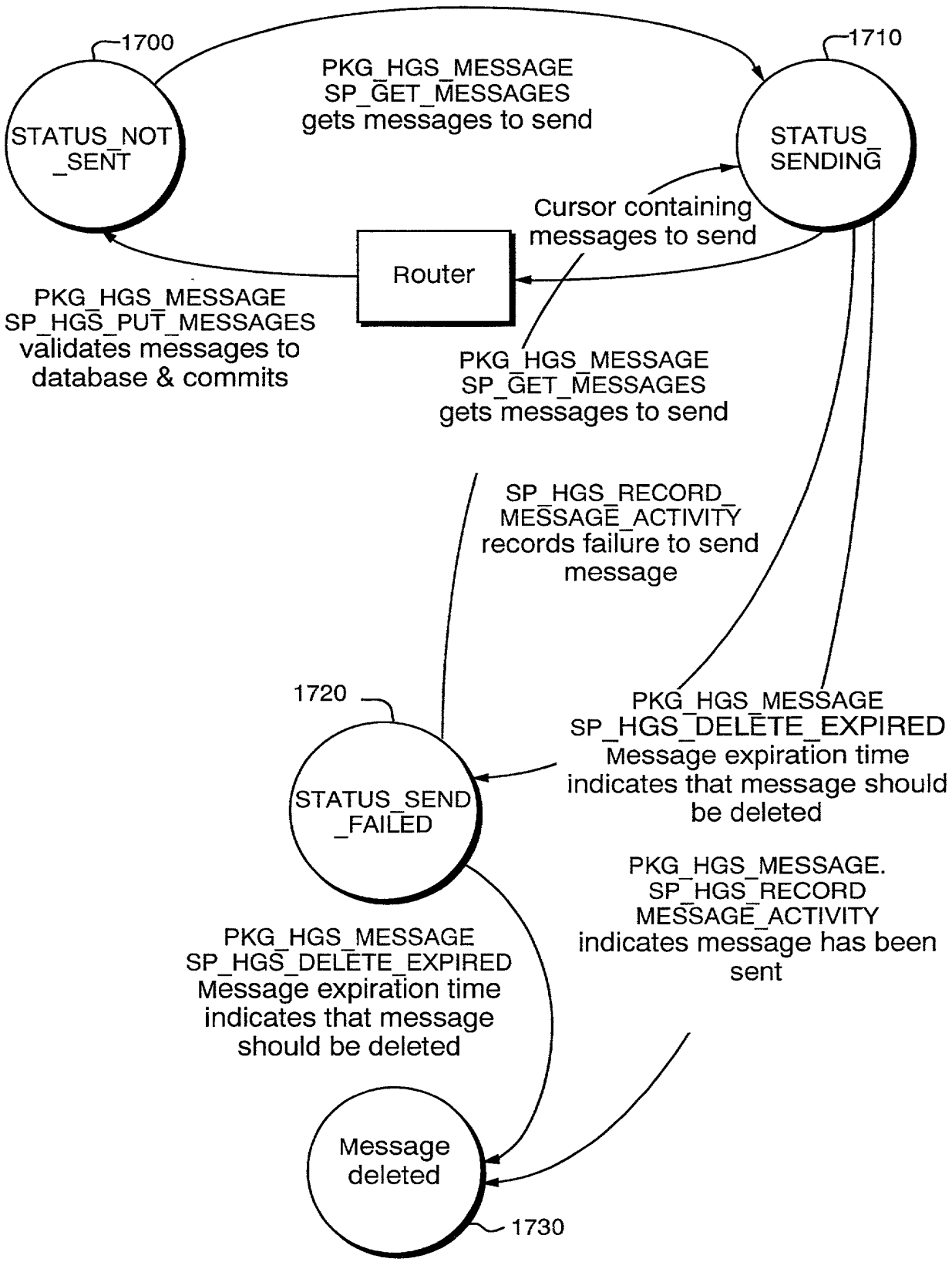

FIG. 7

Tracfone 5086 Ex. 1002

ROUTER ANNOUNCER SERVICE UDP PACKET			
FIELD	SIZE	COMMENTS	
gIdentifier	128 bits	This is set to HG_ROUTER_ ANNOUNCEMENT_PACKET to indicate that the packet is an announcement of router addresses	500
tCurrent	64 bits	The time of the announcement	510
nPort1	2 bytes	Port # of preferred router	520

FIG. 8

Docket #2657.2004-001

Device connection UDP packet: Initial provisioning case		
FIELD	SIZE	COMMENTS
gObject	128 bits	IID_HG_ConnectionRequest= 6F736237-F105-4474-AF4C-3CAF4893B7B1
nUnused	64 bits	Unused field-set this to zero
nPort	2 bytes	Port number to use to connect to device.

FIG. 9A

Device connection UDP packet: DEVICE ID case		
FIELD	SIZE	COMMENTS
gObject	128 bits	IID_HG_DIConnectionRequest= EDEBF4D9-4022-478B-B18B-ACFCE2644960
nDeviceID	64 bits	Persistant device ID.
nPort	16 bits	Port number to use to connect to device.

FIG. 9B

Device connection UDP packet: MAC address case		
FIELD	SIZE	COMMENTS
gObject	128 bits	IID_HG_MACConnectionRequest= 98D631DA-2756-49E5-AD2F-B4766ACD09A4
nMACAddress	64 bits	Device's MAC address
nPort	16 bits	Port number to use to connect to device.

FIG. 9C

Attorney Docket No. 2657.2004-001